

Abstract

Disclosed are improved catheter slit valves for medical fluid infusion and aspiration. The improved catheter slit valves use nonradial slits to address the problems found with conventional radial slit valves. The improved catheter slit valves also use radial and nonradial slits in combination with each other, protuberances, and caps to enhance the operation of the valves. Also disclosed are catheters with multiple slit valves, compound slit valves, multiple lumens, or combinations thereof. The catheters disclosed are made of biocompatible materials, such as polyurethanes, silicones, polyethylenes, nylons, polyesters, and polyester elastomers.

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